HPTN 096

Integrating Multi-Level Strategies to Reduce HIV

Transmission Among Black MSM in the Southern US

LaRon E. Nelson, PhD, RN, FNP, FNAP, FAAN, study co-chair

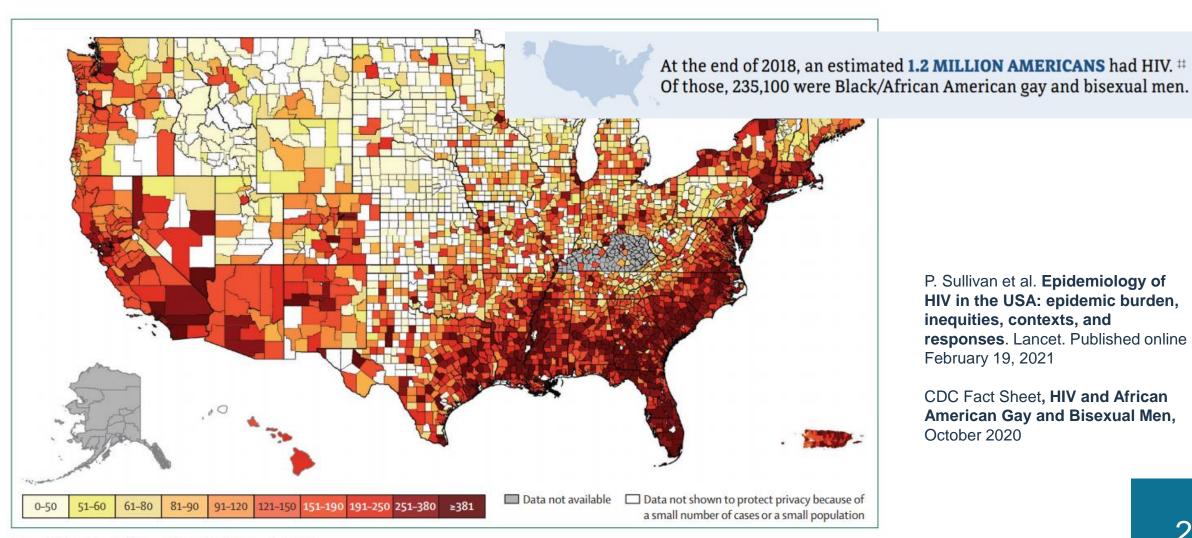
Yale School of Nursing







The HIV Epidemic in Black MSM and the Southern **US: Prevalence**



P. Sullivan et al. **Epidemiology of** HIV in the USA: epidemic burden, inequities, contexts, and responses. Lancet. Published online February 19, 2021

CDC Fact Sheet, HIV and African American Gay and Bisexual Men, October 2020

Figure 2: Diagnosed HIV prevalence by US county, 2018



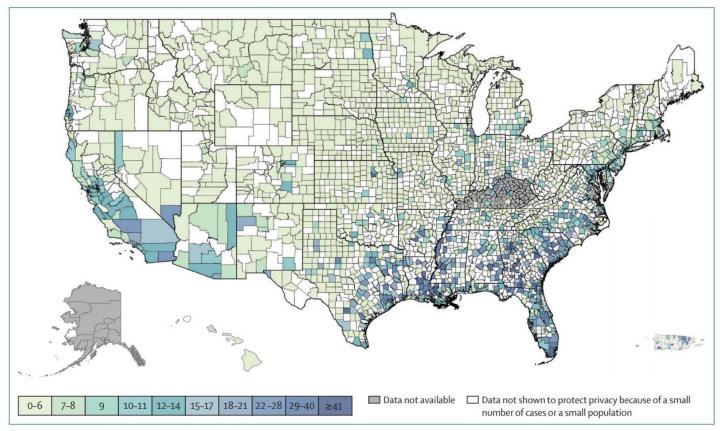
The HIV Epidemic in Black MSM and the Southern US: Diagnoses and Incidence



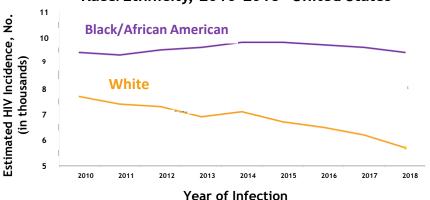
Of the **37,968 NEW HIV DIAGNOSES** in the US and dependent areas in 2018, 51% were in the South.



Of the **37,968 NEW HIV DIAGNOSES** in the US and dependent areas* in 2018, 26% were among Black/African American[†] gay and bisexual men. [‡] **



Estimated HIV Incidence among Men Who Have Sex with Men Aged ≥13 Years by Race/Ethnicity, 2010-2018—United States



P. Sullivan et al. **Epidemiology of HIV in the USA: epidemic burden, inequities, contexts, and responses**. Lancet. Published online February 19, 2021

CDC Fact Sheet, HIV in the United States by Region, June 2020

CDC Fact Sheet, **HIV and African American Gay and Bisexual Men**, October 2020

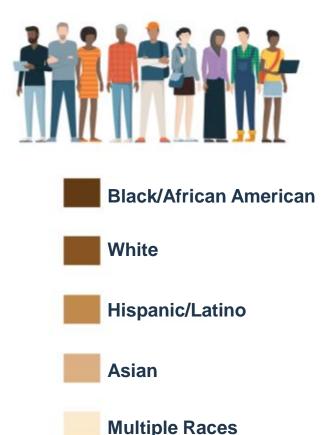
CDC, Estimated HIV Incidence and Prevalence in the United States 2014-2018, May 2020.



The HIV Epidemic in Black MSM and the Southern US: Diagnoses

Blacks/African Americans in the South had the highest number of HIV diagnoses compared to other regions.





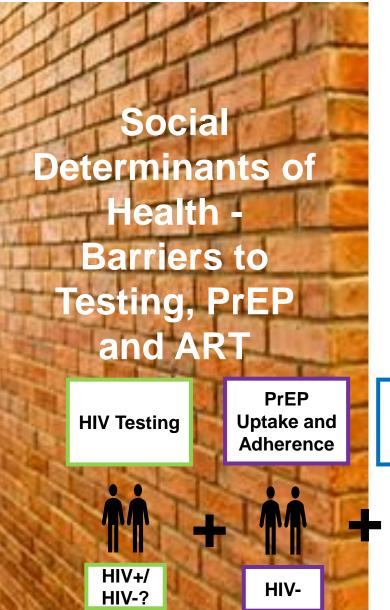


Efficacious Biomedical Interventions









Black MSM



ART Uptake and **Adherence**



HIV+



Transmission

HIV





HIV PREVENTION EFFICACY



HIV PREVENTION EFFICACY

CLINICAL INTERVENTIONS



HIV PREVENTION EFFICACY

CLINICAL INTERVENTIONS

- HIV Testing
- HIV Pre-Exposure Prophylaxis
- HIV Treatment (includes all current FDA-approved products)



HIV PREVENTION EFFICACY

HIV PREVENTION IMPACT

CLINICAL INTERVENTIONS

- HIV Testing
- HIV Pre-Exposure Prophylaxis
- HIV Treatment
 (includes all current FDA-approved products)



HIV PREVENTION EFFICACY

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HIV PREVENTION IMPACT



HIV PREVENTION EFFICACY

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HIV PREVENTION IMPACT

CLINICAL OUTCOMES

Decrease HIV Transmission



HIV PREVENTION EFFICACY

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HIV PREVENTION IMPACT

CLINICAL OUTCOMES

Decrease HIV Transmission





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- HIV Testing
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CLINICAL OUTCOMES

Decrease HIV Transmission





HIV PREVENTION EFFICACY

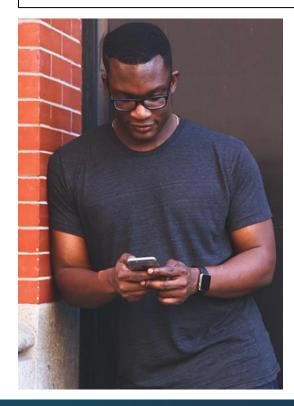
IMPLEMENTATION SCIENCE

CLINICAL INTERVENTIONS

- HIV Testing
- HIV Pre-Exposure Prophylaxis
- HIV Treatment (includes all current FDA-approved products)

HIV PREVENTION IMPACT

- **Increase HIV Detection**
- Decrease HIV Transmission





HIV PREVENTION EFFICACY

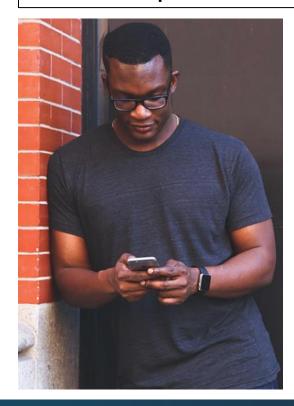
IMPLEMENTATION SCIENCE

CLINICAL INTERVENTIONS

- HIV Testing
- HIV Pre-Exposure Prophylaxis
- HIV Treatment
 (includes all current FDA-approved products)

HIV PREVENTION IMPACT

- HIV Viral Suppression
- HIV PrEP Uptake





HIV PREVENTION EFFICACY

IMPLEMENTATION SCIENCE

HIV PREVENTION IMPACT

CLINICAL OUTCOMES

- HIV Viral Suppression
- HIV PrEP Uptake



CLINICAL INTERVENTIONS

- HIV Testing
- HIV Pre-Exposure Prophylaxis
- HIV Treatment (includes all current FDA-approved products)

DETERMINANTS



HIV PREVENTION EFFICACY

IMPLEMENTATION SCIENCE

CLINICAL INTERVENTIONS

- **HIV Testing**
- **HIV Pre-Exposure Prophylaxis**
- **HIV Treatment** (includes all current FDA-approved products)



DETERMINANTS

HIV PREVENTION IMPACT

- **HIV Viral Suppression**
- **HIV PrEP Uptake**





HIV PREVENTION EFFICACY

IMPLEMENTATION SCIENCE

HIV PREVENTION IMPACT

CLINICAL INTERVENTIONS

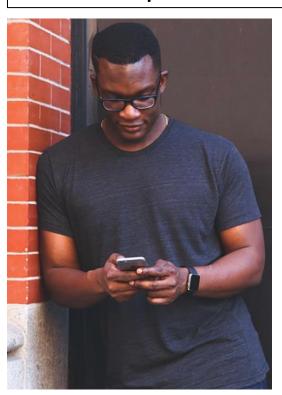
- HIV Testing
- HIV Pre-Exposure Prophylaxis
- HIV Treatment (includes all current FDA-approved products)

Intersectional Stigma

DETERMINANTS

HIV Viral Suppression

HIV PrEP Uptake



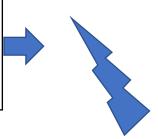


HIV PREVENTION EFFICACY

CLINICAL INTERVENTIONS

- HIV Testing
- HIV Pre-Exposure Prophylaxis
- HIV Treatment (includes all current FDA-approved products)

IMPLEMENTATION SCIENCE



- Intersectional Stigma
 - Community-level

DETERMINANTS

HIV PREVENTION IMPACT

- HIV Viral Suppression
- HIV PrEP Uptake



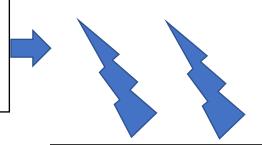


HIV PREVENTION EFFICACY

CLINICAL INTERVENTIONS

- HIV Testing
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IMPLEMENTATION SCIENCE



- Intersectional Stigma
 - Community-level
 - Healthcare facility-Level

DETERMINANTS

HIV PREVENTION IMPACT

- HIV Viral Suppression
- HIV PrEP Uptake



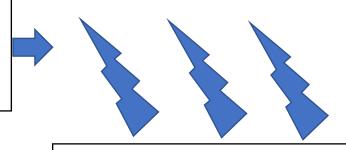


HIV PREVENTION EFFICACY

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- HIV Testing
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IMPLEMENTATION SCIENCE



- Intersectional Stigma
 - Community-level
 - Healthcare facility-Level
- Culturally non-responsive services

DETERMINANTS

HIV PREVENTION IMPACT

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- HIV PrEP Uptake



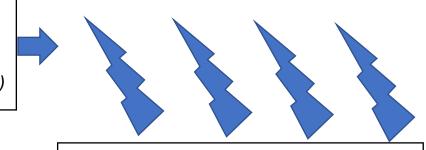


HIV PREVENTION EFFICACY

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IMPLEMENTATION SCIENCE



- Intersectional Stigma
 - Community-level
 - Healthcare facility-Level
- Culturally non-responsive services
- Structural barriers to social support

DETERMINANTS

HIV PREVENTION IMPACT

- HIV Viral Suppression
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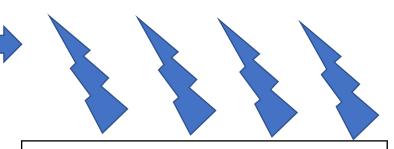
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IMPLEMENTATION SCIENCE

INTEGRATED STRATEGIES



- Intersectional Stigma
 - Community-level
 - Healthcare facility-Level
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DETERMINANTS

HIV PREVENTION IMPACT

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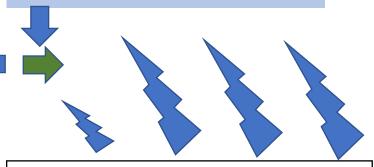
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HIV PREVENTION IMPACT

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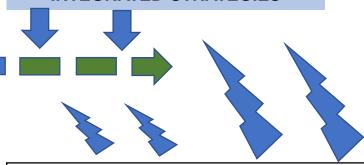
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HIV PREVENTION IMPACT

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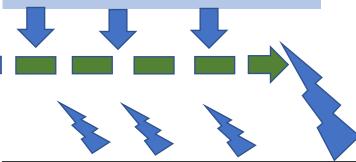
HIV PREVENTION EFFICACY

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IMPLEMENTATION SCIENCE

INTEGRATED STRATEGIES



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DETERMINANTS

HIV PREVENTION IMPACT

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HIV PREVENTION EFFICACY

CLINICAL INTERVENTIONS

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IMPLEMENTATION SCIENCE

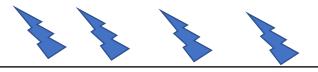
INTEGRATED STRATEGIES





CLINICAL OUTCOMES

- HIV Viral Suppression
- HIV PrEP Uptake



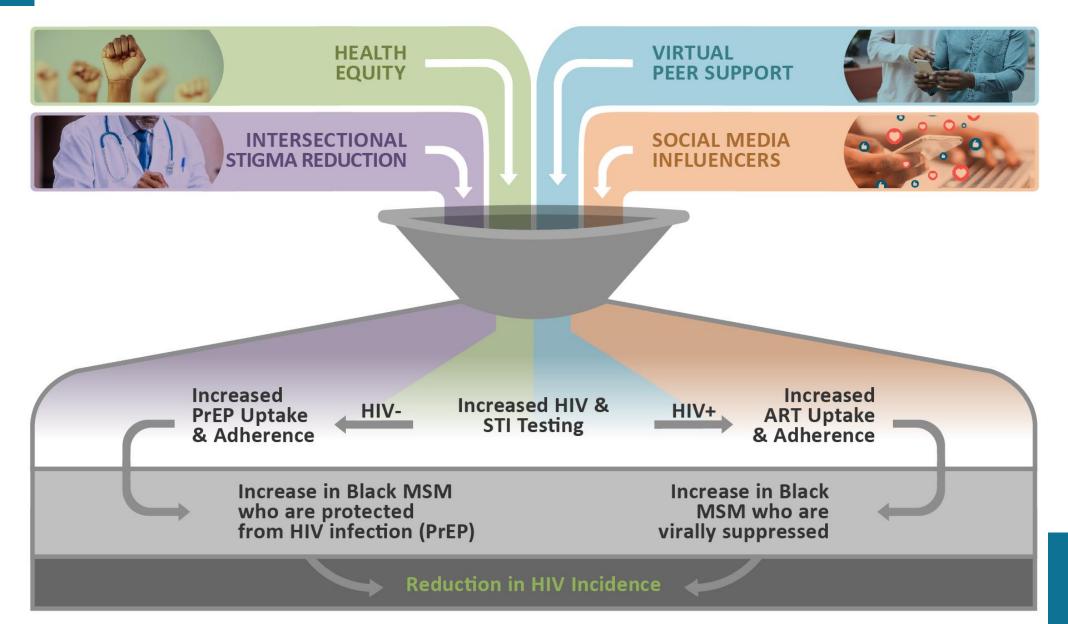
- Intersectional Stigma
 - Community-level
 - Healthcare facility-Level
- Culturally non-responsive services
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DETERMINANTS



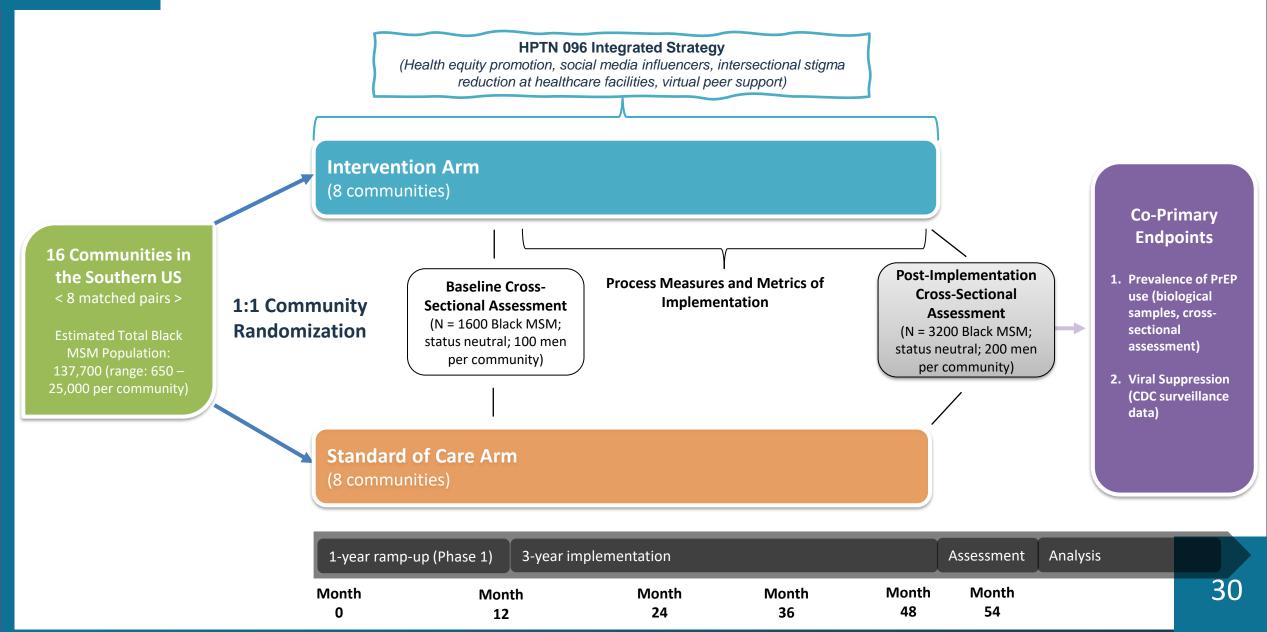


Integrated Strategy





Study Design





Co-Primary Endpoints



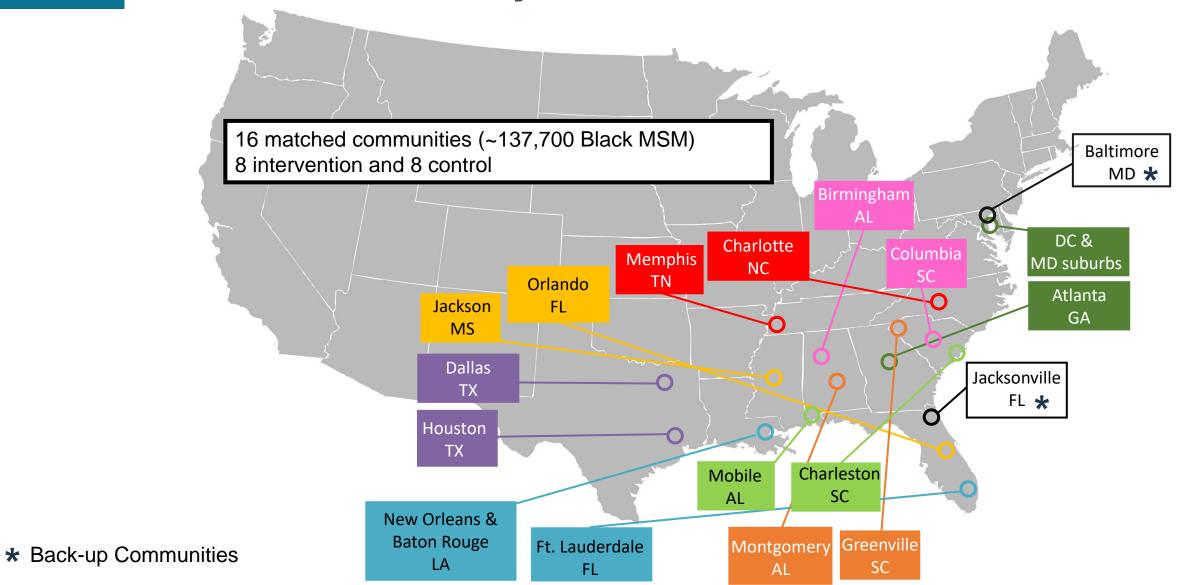


- 1. Prevalence of PrEP use (biological samples, cross-sectional)
- 2. Viral Suppression (based on CDC surveillance data)





Study Communities





Community Engagement

- Community Listening Sessions
 - Georgia, South Carolina and Texas
- Community Strategy Group (CSG)
 - Guides community engagement activities
- Community Advisory Group (CAG)
 - 2 representatives from each study community
- Partnership with the Ending the Epidemic Committees in each study community







Partnerships and Engagement



- NIH (sponsor)
- CDC
- HRSA
- Black AIDS Institute
- Ending the HIV Epidemic Councils in each potential jurisdiction
 - Public health departments, CBOs, clinics, universities
- Community Strategy/Advisory Group
 - National Black Gay Men's Advocacy Coalition
 - Black Gay Research Group
 - Association of Nurses in AIDS Care
 - National Black Nurses Association
- Gilead Sciences, Inc and ViiV Healthcare



HPTN 096: PrEP and ART

- Working with partners to have the most effective and safe PrEP options available
- Already in discussion with pharma companies





Study Timeline

The study implementation will take place over the course of three years, after a one-year ramp-up period.

2020				2021				2022				2023				2024				2025				2026	
Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
PR	отосо	L DEVE	ELOPM	ENT	PRE- IMPLEMENTATION ACTIVITES			1-YEAR RAMP UP				3-YEAR STUDY IMPLEMENTATION											ENDPOINT CROSS- SECTIONAL ASSESSMENT		



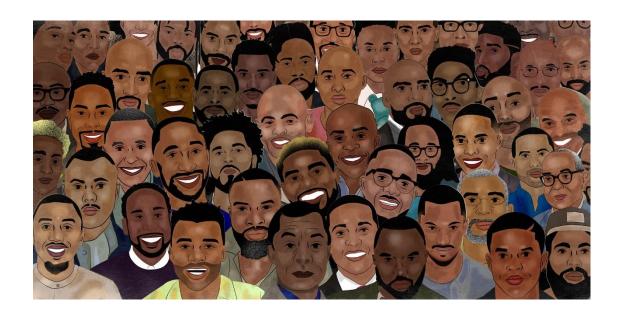
BASELINE CROSS-SECTIONAL ASSESSMENT



Moving HPTN 096 Forward

This is the right population.

The time is now.



 HPTN 096 has a robust study design that can evaluate the impact of this integrated strategy on the uptake and use of biomedical interventions.



Acknowledgements

Study Co-Chairs: Chris Beyrer, MD and Bob Remien, PhD

Protocol Team:

NIH: Dale Burwen, David Burns, Michael Stirratt

CDC: Kevin Delaney, Irene Hall, Anna Satcher Johnson, Dawn Smith

HRSA: Keisha Bayne, Marcus Jackson, Angela Powell, Stacy Cohen, Shelita Merchant

Black AIDS Institute: Maximillian Boykin, Raniyah Copland, Elizabeth McGee, Rob Newells

HPTN Ethics Rep: Kathleen MacQueen

HPTN LOC: Theresa Gamble, Elizabeth Greene, Sherri Johnson, Ashley Mayo, Nicholas Hastings, Tanette Headen, Laura Long, Sam Alvarado, Kevin Bokoch, Gaby Salinas-Jimenez, Beth

Farrell, Niru Sista

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HPTN LC: Susan Eshleman, Philip Sullivan

Pharma Reps: Christoph Carter, James Rooney

EHE Committee Reps: Melverta Bender, Krystle Cherry, Melvin Cauthen, Daniel Murdock

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